

Al2O3\_FDS1b2\_mask10\_15ago2024.xrdml

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## Report

Created on: 21/08/2024 12:57:15

Operator: LSCnM2020\_pcRaman

## File

File name: D:\LSCnM\_UFSC\dados\_LDRX\_UFSC\Padroes\LaB6\_VM\Al2O3\_FDS1b2\_mask10\_

Checksum: 10a93f34625817729d587c25dbfa3f22

File size 111016

(bytes):

## Time stamp

Started: 15/08/2024 05:27:02

Finished: 15/08/2024 07:16:09

Total time 01:49:07

(h:m:s):

## Comment

Configuration=PoXcelSpinner1, Owner=Carlos, Creation date=14/11/2019 15:05:29

Goniometer=PW3050/60 (Theta/Theta); Minimum step size 2Theta:0,001; Minimum step size Omega:

Sample stage=Reflection-Transmission Spinner PW3064/60; Minimum step size Phi:0,1

Diffraction system=XPRT-PRO

Measurement program=MedePadroes, Owner=Carlos, Creation date=30/3/2022 15:20:44

Batch program=mede Padroes, Owner=Carlos, Creation date=30/3/2022 15:23:09

## Status

Completed

## Sample

Sample To be analyzed

type:

Sample ID: Al2O3 do IPEN (Luis Galego)

Sample na cav do ZB gde coM faca 1a div e spun 4s

name:

Prepared by: Grupo LSCnM

## Measurement type

Repeated scan (3 times)

## Used wavelength

Al2O3\_FDS1b2\_mask10\_15ago2024.xrdml

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Intended wavelength type:  $K\alpha$   
 $K\alpha_1$  (Å): 1,540598  
 $K\alpha_2$  (Å): 1,544426  
 $K\alpha_2/K\alpha_1$  intensity ratio: 0,50  
 $K\alpha$  (Å): 1,541874  
 $K\beta$  (Å): 1,392250

## Incident beam path

Radius (mm): 240,0

### X-ray tube

Name: PW3373/00 Cu LFF DK423121

Anode material: Cu

Voltage (kV): 45

Current (mA): 40

### Focus

Focus type: Line

Length (mm): 12,0

width (mm): 0,4

Take-off angle (°): 6,0

### Soller slit

Name: Soller 0.04 rad.

Opening (rad.): 0,04

### Mask

Name: Inc. Mask Fixed 10 mm (MPD/MRD)

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Al2O3\_FDS1b2\_mask10\_15ago2024.xrdml

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Width 6,60  
(mm):

## Anti-scatter slit

Name: Slit Fixed 1°  
Type: Fixed  
Height 1,52  
(mm):

## Divergence slit

Name: Slit Fixed 1/2°  
Distance 140  
to sample  
(mm):  
Type: Fixed  
Height 0,76  
(mm):

## Sample movement

Movement type: Spinning  
Rotation 4,0  
time (s):

## Diffracted beam path

Radius 240,0  
(mm):

## Anti-scatter slit

Name: AS Slit 5.0 mm (X'Celerator)  
Type: Fixed  
Height 5,00  
(mm):

## Soller slit

Name: Large Soller 0.04 rad.  
Opening 0,04  
(rad.):

## Filter

Name: Nickel

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Al2O3\_FDS1b2\_mask10\_15ago2024.xrdml

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Thickness 0,020

(mm):

Material: Ni

## Detector

Name: X'Celerator

Type: RTMS detector

PHD - 41,5

Lower

level (%):

PHD - 98,0

Upper

level (%):

Mode: Scanning

Active 2,122

length (°):

## Source

Created by: Administrador

Application X'Pert Data Collector

SW: vs. 2.2c

Instrument XPERT-PRO

control SW: vs. 2.2D

Instrument 0000000011026311

ID:

## Comment

medida de Padroes (Si, Al2O3, CeO2, Y2O3)

## Sample mode

Reflection

## Scan 1

Start time 15/08/2024 05:27:02

stamp:

End time 15/08/2024 06:03:20

stamp:

Scan axis: Gonio

Scan range 15,0000 - 90,0002

(°):

Al2O3\_FDS1b2\_mask10\_15ago2024.xrdml

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Step size (°): 0,0084

No. of

points:

Scan mode: Continuous

Phi (°): 42,3

Counting

time (s):

## Scan 2

Start time 15/08/2024 06:03:28

stamp:

End time 15/08/2024 06:39:44

stamp:

Scan axis: Gonio

Scan range 15,0000 - 90,0002

(°):

Step size (°): 0,0084

No. of

points:

Scan mode: Continuous

Phi (°): 42,3

Counting

time (s):

## Scan 3

Start time 15/08/2024 06:39:53

stamp:

End time 15/08/2024 07:16:09

stamp:

Scan axis: Gonio

Scan range 15,0000 - 90,0002

(°):

Step size (°): 0,0084

No. of

points:

Scan mode: Continuous

Phi (°): 42,3

Counting

time (s):

Al2O3\_FDS1b2\_mask10\_15ago2024.xrdml

